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1　Dynamic graph-based software fingerprinting

◇　Christian S. Collberg, Clark Thomborson, Gregg M. Townsend
October 2007　ACM Transactions on Programming Languages and Systems (TOPLAS),　Volume 29 Issue 6
Publisher: ACM

Full text available: 🗐 pdf(1.48 MB)　　Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 39,　Downloads (12 Months): 379,　Citation Count: 0

Fingerprinting embeds a secret message into a cover message. In media fingerprinting, the secret is usually a copyright notice and the cover a digital image. Fingerprinting an object discourages intellectual property theft, or when such theft has occurred, ...

Keywords: Software piracy, software protection, watermarking

2 Detection of video sequences using compact signatures

Justin Zobel, Timothy C. Hoad

January   ACM Transactions on Information Systems (TOIS),   Volume 24 Issue
2006   1

Publisher: ACM

Full text available: pdf(725.90 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 60,   Downloads (12 Months): 260,   Citation Count: 0

> Digital representations are widely used for audiovisual content, enabling the creation
> of large online repositories of video, allowing access such as video on demand.
> However, the ease of copying and distribution of digital video makes piracy a
> growing ...
>
> Keywords: Video similarity detection, dynamic programming, local alignment

3 XML stream processing using tree-edit distance embeddings

Minos Garofalakis, Amit Kumar

March   ACM Transactions on Database Systems (TODS),   Volume 30 Issue 1
2005

Publisher: ACM

Full text available: pdf(726.56 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 209,   Citation Count: 3

> We propose the first known solution to the problem of correlating, in small space,
> continuous streams of XML data through approximate (structure and content)
> matching, as defined by a general tree-edit distance metric. The key element of our
> solution ...
>
> Keywords: XML, approximate query processing, data streams, data synopses,
> metric-space embeddings, tree-edit distance

4 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June   ACM Computing Surveys (CSUR),   Volume 32 Issue 2
2000

Publisher: ACM

Full text available: pdf(213.89 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 312,   Downloads (12 Months): 1651,   Citation Count: 36

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

5 Searching in metric spaces

Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín
September   ACM Computing Surveys (CSUR),   Volume 33 Issue 3
2001
Publisher: ACM

Full text available: pdf(916.04 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 103, Downloads (12 Months): 482, Citation Count: 58

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces

6 The Omni-family of all-purpose access methods: a simple and effective way to make similarity search more efficient

Caetano Traina, Jr., Roberto F. Filho, Agma J. Traina, Marcos R. Vieira, Christos Faloutsos
October   The VLDB Journal — The International Journal on Very Large Data
2007   Bases,   Volume 16 Issue 4
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 35, Citation Count: 0

Similarity search operations require executing expensive algorithms, and although broadly useful in many new applications, they rely on specific structures not yet supported by commercial DBMS. In this paper we discuss the new Omni-technique, which allows ...

Keywords: Index structures, Metric access methods, Multimedia databases, Similarity search

7 AFIS data compression: an example of how domain specific compression algorithms can produce very high compression ratios

Givon Zirkind
November 2007   ACM SIGGRAPH Computer Graphics,   Volume 41 Issue 4

Publisher: ACM

Full text available: pdf(472.17 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 126, Citation Count: 0

This article describes the development and implementation of a data compression algorithm designed specifically for fingerprints, referred to as GBP compression. The algorithm is herein discussed. Data Compression algorithms can be designed for general ...

Keywords: AFIS, automated fingerprint identification systems, compatibility, compression, data compression, data encryption, data integrity, double compression, fingerprinting, graphics, image compression, image quality, limits of compression, portability, retrofitting, serial compression, software engineering

8 AFIS data compression: an example of how domain specific compression algorithms can produce very high compression ratios

Givon Zirkind
November 2007   ACM SIGSOFT Software Engineering Notes,   Volume 32 Issue 6

Publisher: ACM

Full text available: pdf(931.89 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 127, Citation Count: 0

This article describes the development and implementation of a data compression algorithm designed specifically for fingerprints, referred to as GBP compression. The algorithm is herein discussed. Data Compression algorithms can be designed for general ...

Keywords: AFIS, automated fingerprint identification systems, compatibility, compression, data compression, data encryption, data integrity, double compression, fingerprinting, graphics, image compression, image quality, limits of compression, portability, retrofitting, serial compression, software engineering

9 Integrating symbolic images into a multimedia database system using classification and abstraction approaches

Aya Soffer, Hanan Samet

December 1998   The VLDB Journal — The International Journal on Very Large Data Bases,   Volume 7 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(227.30 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 73,   Citation Count: 1

Symbolic images are composed of a finite set of symbols that have a semantic meaning. Examples of symbolic images include maps (where the semantic meaning of the symbols is given in the legend), engineering drawings, and floor plans. Two approaches for ...

Keywords: Image indexing, Multimedia databases, Query optimization, Retrieval by content, Spatial databases, Symbolic-image databases

10 Archiving scientific data

Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan

March 2004   ACM Transactions on Database Systems (TODS),   Volume 29 Issue 1

Publisher: ACM

Full text available: pdf(745.61 KB)   Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 28,   Downloads (12 Months): 200,   Citation Count: 7

Archiving is important for scientific data, where it is necessary to record all past versions of a database in order to verify findings based upon a specific version. Much scientific data is held in a hierachical format and has a key structure that provides ...

Keywords: Keys for XML

11 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004   ACM Computing Surveys (CSUR),   Volume 36 Issue 1

Publisher: ACM

Full text available: pdf(294.13 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 156,   Downloads (12 Months): 1167,   Citation Count: 7

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

12 Communications of the ACM: Volume 51 Issue 3

March   issue   Volume 51 Issue 3
2008
Publisher: ACM

Full text available: pdf(7.56 MB) digital edition

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 98, Downloads (12 Months): 483, Citation Count: 0

13 The development of the Emerald programming language

Andrew P. Black, Norman C. Hutchinson, Eric Jul, Henry M. Levy
June   HOPL III: Proceedings of the third ACM SIGPLAN conference on History of
2007   programming languages
Publisher: ACM

Full text available: pdf(1.45 MB)

Additional Information: full citation, appendices and supplements, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 264, Citation Count: 0

Emerald is an object-based programming language and system designed and implemented in the Department of Computer Science at the University of Washington in the early and mid-1980s. The goal of Emerald was to simplify the construction of distributed ...

Keywords: Eden, Emerald, Washington, abstract types, call-by-move, distributed programming, mobility, object mobility, object-oriented programming, polymorphism, remote object invocation, remote procedure call, type conformity

14 Communications of the ACM: Volume 51 Issue 5

May   issue   Volume 51 Issue 5
2008
Publisher: ACM

Full text available: pdf(7.28 MB) digital edition

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 355, Downloads (12 Months): 355, Citation Count: 0

15 A reliable multicast framework for light-weight sessions and application level framing

Sally Floyd, Van Jacobson, Ching-Gung Liu, Steven McCanne, Lixia Zhang
December   IEEE/ACM Transactions on Networking (TON),   Volume 5 Issue 6
1997
Publisher: IEEE Press

Full text available: pdf(310.74 KB)   Additional Information: full citation, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 124,   Citation Count: 105

Keywords: Internetworking, computer network performance, computer networks

16 Proceedings of the 6th ACM international conference on Image and video retrieval

Nicu Sebe, Marcel Worring
July 2007   proceeding
Publisher: ACM
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

Welcome to the ACM International Conference on Image and Video Retrieval, CIVR 2007. After 5 editions, the CIVR conference has now become an official ACM Conference and an IAPR co-sponsored event. The conference is one of the most important and influential ...

17 CHI '06 extended abstracts on Human factors in computing systems

Gary Olson, Robin Jeffries
April 2006   proceeding
Publisher: ACM
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

Welcome to the CHI 2006 *Extended Abstracts*. We hope that you will enjoy this year's extended abstracts and the changes that we have made. For the first time this year, we encouraged submissions from six different sub-communities of the human-computer ...

18 Point-based computer graphics

Marc Alexa, Markus Gross, Mark Pauly, Hanspeter Pfister, Marc Stamminger, Matthias Zwicker

August 2004   SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: pdf(8.94 MB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 91,   Downloads (12 Months): 505,   Citation Count: 3

This course introduces points as a powerful and versatile graphics primitive. Speakers present their latest concepts for the acquisition, representation, modeling, processing, and rendering of point sampled geometry along with applications and research ...

19 Link-time binary rewriting techniques for program compaction

Bjorn De Sutter, Bruno De Bus, Koen De Bosschere

September 2005   ACM Transactions on Programming Languages and Systems (TOPLAS),   Volume 27 Issue 5

Publisher: ACM

Full text available: pdf(1.37 MB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 144,   Citation Count: 5

Small program size is an important requirement for embedded systems with limited amounts of memory. We describe how link-time compaction through binary rewriting can achieve code size reductions of up to 62% for statically bound languages such ...

Keywords: Program representation, binary rewriting, code abstraction, compaction, interprocedural analysis, linker, whole-program optimization

20 ACM SIGGRAPH Computer Graphics: Volume 37 Issue 2

May 2003   issue   Volume 37 Issue 2

Publisher: ACM

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

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